

SEQUENCE LISTING

<110> PTC Therapeutics, Inc.
Mehta, Anuradha
Trotta, Christopher Robert

<120> Methods and Agents for Screening for Compounds Capable of
Modulating Her2 Expression

<130> 19025.024

<140> To be assigned
<141> 2004-11-17

<150> US 60/520,384
<151> 2003-11-17

<160> 30

<170> PatentIn version 3.2

<210> 1
<211> 73
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<400> 1
cttttctgtt tagtttttac tttttttgtt ttgtttttt aaagacgaaa taaagaccca 60
ggggagaatg ggt 73

<210> 2
<211> 3768
<212> DNA
<213> Homo sapiens

<400> 2
atggagctgg cggccttggt cgcgtggggg ctctctctcg ccctcttgcc ccccgaggcc 60
gcgagcacc aagtgtgcac cggcacagac atgaagctgc ggctccctgc cagtcccag 120
accacctgg acatgctccg ccacctctac cagggtgcc aggtggtgca gggaaacctg 180
gaactcacct acctgccac caatgccagc ctgtccttcc tgcaggatat ccaggaggtg 240
cagggtacg tgctcatgc tcacaaccaa gtgaggcagg tcccactgca gaggctgcgg 300
attgtgcgag gcaccagct ctttgaggac aactatgccc tggccgtgct agacaatgga 360
gaccgcgtga acaataccac ccctgtcaca ggggcctccc caggaggcct gcgggagctg 420
cagcttcgaa gcctcacaga gatcttgaaa ggagggtct tgatccagcg gaacccccag 480

ctctgctacc aggacacgat tttgtggaag gacatcttcc acaagaacaa ccagctggct	540
ctcacactga tagacaccaa ccgctctcgg gcctgccacc cctgttctcc gatgtgtaag	600
ggctcccgcct gctggggaga gagttctgag gattgtcaga gcctgacgcg cactgtctgt	660
gccggtggct gtgcccgcctg caagggggcca ctgccactg actgctgcca tgagcagtgt	720
gctgccggct gcacggggccc caagcactct gactgcctgg cctgcctcca cttcaaccac	780
agtggcatct gtgagctgca ctgccagcc ctggtcacct acaacacaga cacgtttgag	840
tccatgccca atcccagagg ccggtataca ttcggcgcca gctgtgtgac tgccctgtccc	900
tacaactacc tttctacgga cgtgggatcc tgcaccctcg tctgccccct gcacaaccaa	960
gaggtgacag cagaggatgg aacacagcgg tgtgagaagt gcagcaagcc ctgtgcccga	1020
gtgtgctatg gtctgggcat ggagcacttg cgagagggtga gggcagttac cagtgccaat	1080
atccaggagt ttgctggctg caagaagatc tttgggagcc tggcatttct gccggagagc	1140
tttgatgggg acccagcctc caacactgcc ccgctccagc cagagcagct ccaagtgttt	1200
gagactctgg aagagatcac aggttaocta tacatctcag catggccgga cagcctgcct	1260
gacctcagcg tcttccagaa cctgcaagta atccggggac gaattctgca caatggcgcc	1320
tactcgctga ccctgcaagg gctgggcata agctggctgg ggctgcgctc actgagggaa	1380
ctgggcagtg gactggccct catccaccat aacacccacc tctgcttctg gcacacgggtg	1440
ccctgggacc agctctttcg gaaccgcac caagctctgc tccacactgc caaccggcca	1500
gaggacgagt gtgtggggcga gggcctggcc tgccaccagc tgtgcgcccg agggcactgc	1560
tgggggtccag ggcccaccca gtgtgtcaac tgcagccagt tccttcgggg ccaggagtgc	1620
gtggaggaat gccgagtact gcaggggctc ccaggaggat atgtgaatgc caggcactgt	1680
ttgccgtgcc accctgagtg tcagccccag aatggctcag tgacctgttt tggaccggag	1740
gctgaccagt gtgtggcctg tgcccactat aaggaccctc ctttctgcgt ggcccgtgc	1800
cccagcgggtg tgaaacctga cctctoctac atgcccactt ggaagtctcc agatgaggag	1860
ggcgcatgcc agccttgccc catcaactgc acccactcct gtgtggacct ggatgacaag	1920
ggctgccccg ccgagcagag agccagccct ctgacgtcca tcgtctctgc ggtggttggc	1980
attctgctgg tcgtggtctt ggggggtggtc tttgggatcc tcatcaagcg acggcagcag	2040
aagatccgga agtacacgat gcggagactg ctgcaggaaa cggagctggt ggagccgctg	2100
acacctagcg gagcgatgcc caaccaggcg cagatgcgga tcctgaaaga gacggagctg	2160
aggaaggtga aggtgcttgg atctggcgct tttggcacag tctacaaggg catctggatc	2220

cctgatgggg agaatgtgaa aattccagtg gccatcaaag tgttgaggga aaacacatcc 2280
 cccaaagcca acaaagaaat cttagacgaa gcatacgtga tggctggtgt gggctcccca 2340
 tatgtctccc gccttctggg catctgcctg acatccacgg tgcagctggt gacacagctt 2400
 atgccctatg gctgcctctt agaccatgtc cgggaaaacc gcggacgcct gggctcccag 2460
 gacctgctga actggtgtat gcagattgcc aaggggatga gctacctgga ggatgtgcgg 2520
 ctctacaca gggacttggc cgctcggaac gtgctggtca agagtcccaa ccatgtcaaa 2580
 attacagact tcgggctggc tcggctgctg gacattgacg agacagagta ccatgcagat 2640
 gggggcaagg tgcccatcaa gtggatggcg ctggagtcca ttctccgccg gcggttcacc 2700
 caccagagtg atgtgtggag ttatggtgtg actgtgtggg agctgatgac ttttggggcc 2760
 aaaccttacg atgggatccc agcccgggag atccctgacc tgctggaaaa gggggagcgg 2820
 ctgccccagc ccccatctg caccattgat gtctacatga tcatggtcaa atgttgatg 2880
 attgactctg aatgtcggcc aagattccgg gagttggtgt ctgaattctc ccgcatggcc 2940
 agggaccccc agcgctttgt ggtcatccag aatgaggact tgggcccagc cagtcccttg 3000
 gacagcacct tctaccgctc actgctggag gacgatgaca tgggggacct ggtggatgct 3060
 gaggagtatc tggtagccca gcagggttc ttctgtccag accctgcccc gggcgctggg 3120
 ggcattgtcc accacaggca ccgcagctca tctaccagga gtggcggtgg ggacctgaca 3180
 ctagggtgg agccctctga agaggaggcc cccaggtctc cactggcacc ctccgaaggg 3240
 gctggctccg atgtatttga tggtagcctg ggaatggggg cagccaaggg gctgcaaagc 3300
 ctccccacac atgaccccag ccctctacag cggtagagtg aggacccac agtaccctg 3360
 ccctctgaga ctgatggcta cgttgcccc ctgacctgca gccccagcc tgaatatgtg 3420
 aaccagccag atgttcggcc ccagccccct tcgccccgag agggccctct gcctgctgcc 3480
 cgacctgctg gtgccactct ggaaagggcc aagactctct cccagggaa gaatggggtc 3540
 gtcaaagacg tttttgcctt tgggggtgcc gtggagaacc ccgagtactt gacaccccag 3600
 ggaggagctg cccctcagcc ccaccctcct cctgccttca gccagcctt cgacaacctc 3660
 tattactggg accaggaccc accagagcgg ggggctccac ccagcacctt caaagggaca 3720
 cctacggcag agaaccaga gtacctgggt ctggacgtgc cagtgtga 3768

<210> 3
 <211> 531
 <212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 3
 accagaaggc caagtccgca gaagccctga tgtgtcctca gggagcaggg aaggcctgac 60
 ttctgtctggc atcaagaggt gggagggccc tccgaccact tccaggggaa cctgccatgc 120
 caggaacctg tcctaaggaa ccttccttcc tgcttgagtt cccagatggc tggaaggggt 180
 ccagcctcgt tggaagagga acagcaactgg ggagtctttg tggattctga ggccctgccc 240
 aatgagactc tagggtccag tggatgccac agcccagctt ggccctttcc ttccagatcc 300
 tgggtactga aagccttagg gaagctggcc tgagagggga agcggcccta agggagtgtc 360
 taagaacaaa agcgacccat tcagagactg tccctgaaac ctagtactgc ccccatgag 420
 gaaggaacag caatgggtgtc agtatccagg ctttgtacag agtgcttttc tgtttagttt 480
 ttactttttt tgttttgttt ttttaaagat gaaataaaga cccaggggga g 531

<210> 4

<211> 615

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 4
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcaggagca gggaaggcct 60
 gacttctgct ggcataaaga ggtgggaggg cctccgacc acttccaggg gaacctgcca 120
 tgccaggaac ctgtcctaag gaaccttcct tcctgcttga gttcccagat ggctggaagg 180
 ggtccagcct cgttggaaga ggaacagcac tggggagtct ttgtggattc tgaggccctg 240
 cccaatgaga ctctagggtc cagtggatgc cacagcccag cttggccctt tccttcaga 300
 tcctgggtac tgaaagcctt agggaagctg gcctgagagg ggaagcggcc ctaaggaggt 360
 gtctaagaac aaaagcgacc cattcagaga ctgtccctga aacctagtac tgcccccat 420
 gaggaaggaa cagcaatggt gtcagtatcc aggcctttagta cagagtgtt ttctgttttag 480
 tttttacttt ttttgttttg tttttttaa gacgaaataa agaccaggg gagaatgggt 540
 gttgtatggg gaggcaagtg tgggggggtcc ttctccacac ccactttgtc catttgcaaa 600
 tatattttgg aaaac 615

<210> 5
 <211> 310
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 5
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcagggagca gggaaggcct 60
 gacttctgct ggcataaaga ggtgggaggg ccctccgacc acttccaggg gaacctgcca 120
 tgccaggaac ctgtcctaag gaaccttcct tcctgcttga gttcccagat ggctggaagg 180
 ggtccagcct cgttggaaga ggaacagcac tggggagtct ttgtggattc tgaggccctg 240
 cccaatgaga ctctagggtc cagtggatgc cacagcccag cttggccctt tccttccaga 300
 tcctgggtac 310

<210> 6
 <211> 219
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 6
 ggctgcttga ggaagtataa gaatgaagtt gtgaagctga gattccctc cattgggacc 60
 ggagaaacca ggggagcccc ccgggcagcc gcgcgcccct tcccacgggg ccctttactg 120
 cgccgcgcgc cgggccccca cccctcgag caccgcgcgc ccgcgcccct ccagccggg 180
 tccagccgga gccatggggc cggagccgca gtgagcacc 219

<210> 7
 <211> 104
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 7
 ccttccttcc tgcttgagtt ccagatggc tggaaggggt ccagcctcgt tggaagagga 60
 acagcactgg ggagtctttg tggattctga ggccctgccc aatg 104

<210> 8
 <211> 73
 <212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 8

cttttctggt tagtttttac ttttttggt ttgtttttt aaagatgaaa taaagaccca 60

ggggagaatg ggt 73

<210> 9

<211> 73

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 9

cttttctggt tagtttttac ttttttggt ttgtttttt aaagatgaaa taaagaccca 60

gggggagatg ggt 73

<210> 10

<211> 73

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 10

cttttctggt tagtttttac ttttttggt ttgtttttt aaagacgaaa taaagaccca 60

gggggagatg ggt 73

<210> 11

<211> 73

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 11

cttttctggt tagtttttac ttttttggt ttgtttttt aaagacgaaa taaagaccca 60

gggggggatg ggt 73

<210> 12

<211> 73

<212> DNA

<213> Artificial

<220>
<223> Synthetic construct

<400> 12
cttttctggt tagtttttac ttttttggt ttgtttttt aaagacgaaa taaagaccca 60
ggggaaaatg ggt 73

<210> 13
<211> 73
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<400> 13
cttttctggt tagtttttac ttttttggt ttgtttttt aaagacgaaa taaagaccca 60
ggggaagatg ggt 73

<210> 14
<211> 73
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<400> 14
cttttctggt tagtttttac ttttttggt ttgtttttt aaagacgaaa taaagaccca 60
gggggaaatg ggt 73

<210> 15
<211> 73
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<400> 15
cttttctggt tagtttttac ttttttggt ttgtttttt aaagacgaaa taaagaccca 60
ggggaggatg ggt 73

<210> 16
<211> 73
<212> DNA
<213> Artificial

<220>

<223> Synthetic construct

<400> 16

cttttctggt tagtttttac tttttttggt ttgttttttt aaagacgaaa taaagaccca 60

ggggggaatg ggt 73

<210> 17

<211> 73

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 17

cttttctggt tagtttttac tttttttggt ttgttttttt aaagatgaaa taaagaccca 60

gggggggatg ggt 73

<210> 18

<211> 73

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 18

cttttctggt tagtttttac tttttttggt ttgttttttt aaagatgaaa taaagaccca 60

ggggaaaatg ggt 73

<210> 19

<211> 73

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 19

cttttctggt tagtttttac tttttttggt ttgttttttt aaagatgaaa taaagaccca 60

ggggaagatg ggt 73

<210> 20

<211> 73

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 20
 cttttctggt tagtttttac tttttttggt ttgttttttt aaagatgaaa taaagaccca 60
 gggggaaatg ggt 73

<210> 21
 <211> 73
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 21
 cttttctggt tagtttttac tttttttggt ttgttttttt aaagatgaaa taaagaccca 60
 ggggaggatg ggt 73

<210> 22
 <211> 73
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 22
 cttttctggt tagtttttac tttttttggt ttgttttttt aaagatgaaa taaagaccca 60
 ggggggaatg ggt 73

<210> 23
 <211> 540
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 23
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcagggagca gggaaggcct 60
 gacttctgct ggcatcaaga ggtgggaggg ccctccgacc acttccaggg gaacctgcca 120
 tgccaggaac ctgtcctaag gaaccttctt tcctgcttga gttcccagat ggctggaagg 180
 ggtccagcct cggttgaaga ggaacagcac tggggagtct ttgtggattc tgaggccctg 240
 cccaatgaga ctctagggtc cagtggatgc cacagcccag cttggccctt tccttcaga 300
 tcctgggtac tgaaagcctt aggggaagctg gctgagagg ggaagcggcc ctaaggagat 360

gtctaagaac aaaagcgacc cattcagaga ctgtccctga aacctagtag tgccccccat 420
 gaggaaggaa cagcaatggg gtcagtatcc aggctttgta cagagtgcct ttctgtttag 480
 tttttacttt tttgttttg tttttttaaa gacgaaataa agaccaggg gagaatgggt 540

<210> 24
 <211> 468
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 24
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcaggagca gggaaggcct 60
 gacttctgct ggcatacaaga ggtgggaggg ccctccgacc acttccaggg gaacctgcca 120
 tgccaggaaac ctgtcctaag gaaccttcct tcctgcttga gttcccagat ggctggaagg 180
 ggtccagcct cgttggaaga ggaacagcac tggggagtct ttgtggattc tgaggccctg 240
 cccaatgaga ctctagggtc cagtggatgc cacagcccag cttggccctt tccttccaga 300
 tcctgggtac tgaaagcctt agggaagctg gcctgagagg ggaagcggcc ctaaggaggt 360
 gtctaagaac aaaagcgacc cattcagaga ctgtccctga aacctagtag tgccccccat 420
 gaggaaggaa cagcaatggg gtcagtatcc aggctttgta cagagtgc 468

<210> 25
 <211> 410
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 25
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcaggagca gggaaggcct 60
 gacttctgct ggcatacaaga ggtgggaggg ccctccgacc acttccaggg gaacctgcca 120
 tgccaggaaac ctgtcctaag gaaccttcct tcctgcttga gttcccagat ggctggaagg 180
 ggtccagcct cgttggaaga ggaacagcac tggggagtct ttgtggattc tgaggccctg 240
 cccaatgaga ctctagggtc cagtggatgc cacagcccag cttggccctt tccttccaga 300
 tcctgggtac tgaaagcctt agggaagctg gcctgagagg ggaagcggcc ctaaggaggt 360
 gtctaagaac aaaagcgacc cattcagaga ctgtccctga aacctagtag 410

<210> 26
 <211> 310
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 26
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcagggagca gggaaggcct 60
 gacttctgct ggcatcaaga ggtgggaggg ccctccgacc acttccaggg gaacctgcca 120
 tgccaggaac ctgtcctaag gaaccttcct tcctgcttga gttcccagat ggctggaagg 180
 ggtccagcct cgttggaaga ggaacagcac tggggagtct ttgtggattc tgaggccctg 240
 cccaatgaga ctctagggtc cagtggatgc cacagcccag cttggccctt tccttccaga 300
 tcctgggtac 310

<210> 27
 <211> 210
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 27
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcagggagca gggaaggcct 60
 gacttctgct ggcatcaaga ggtgggaggg ccctccgacc acttccaggg gaacctgcca 120
 tgccaggaac ctgtcctaag gaaccttcct tcctgcttga gttcccagat ggctggaagg 180
 ggtccagcct cgttggaaga ggaacagcac 210

<210> 28
 <211> 110
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 28
 tgaaccagaa ggccaagtcc gcagaagccc tgatgtgtcc tcagggagca gggaaggcct 60
 gacttctgct ggcatcaaga ggtgggaggg ccctccgacc acttccaggg 110

<210> 29
 <211> 502
 <212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 29

cctgccatgc caggaacctg tcctaaggaa ccttccttcc tgcttgagtt cccagatggc	60
tggaaggggt ccagcctcgt tggaagagga acagcactgg ggagtctttg tggattctga	120
ggccctgccc aatgagactc taggggtccag tggatgccac agcccagctt ggccctttcc	180
ttccagatcc tgggtactga aagccttagg gaagctggcc tgagagggga agcggcccta	240
agggagtgtc taagaacaaa agcgacccat tcagagactg tccctgaaac ctagtactgc	300
cccccatgag gaaggaacag caatggtgtc agtatccagg ctttgtacag agtgcttttc	360
tgtttagttt ttactttttt tgttttgttt ttttaaagac gaaataaaga cccaggggag	420
aatgggtggt gtatggggag gcaagtgtgg ggggtccttc tccacacca ctttgtccat	480
ttgcaaatat attttggaac ac	502

<210> 30

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic construct

<400> 30

gttttttttaa a	11
---------------	----